Pietro Alano

List of Publications by Year
in descending order

84	4,543	76326 40	114465 63
papers	citations	h-index	g-index

89	89	89	3808
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Nitrobenzoxadiazole Derivative NBDHEX Behaves as Plasmodium falciparum Gametocyte Selective Inhibitor with Malaria Parasite Transmission Blocking Activity. Pharmaceuticals, 2022, 15, 168.	3.8	3
2	Transmission-blocking drugs for malaria elimination. Trends in Parasitology, 2022, 38, 390-403.	3.3	30
3	Gametocyte-specific and all-blood-stage transmission-blocking chemotypes discovered from high throughput screening on Plasmodium falciparum gametocytes. Communications Biology, 2022, 5, .	4.4	4
4	Real-time PCR assays for detection and quantification of early P. falciparum gametocyte stages. Scientific Reports, 2021, 11, 19118.	3.3	5
5	Professor Richard Carter (1945â€“2021). Trends in Parasitology, 2021, , .	3.3	0
6	Plasmodium falciparum sexual parasites regulate infected erythrocyte permeability. Communications Biology, 2020, 3, 726.	4.4	18
7	Inhibition of Resistance-Refractory P. falciparum Kinase PKG Delivers Prophylactic, Blood Stage, and Transmission-Blocking Antiplasmodial Activity. Cell Chemical Biology, 2020, 27, 806-816.e8.	5.2	56
8	Critical Steps of Plasmodium falciparum Ookinete Maturation. Frontiers in Microbiology, 2020, 11, 269.	3.5	22
9	Antimalarial activity of primaquine operates via a two-step biochemical relay. Nature Communications, 2019, 10, 3226.	12.8	94
10	The bacterial protein CNF1 as a new strategy against Plasmodium falciparum cytoadherence. PLoS ONE, 2019, 14, e0213529.	2.5	6
11	Biology of Plasmodium falciparum gametocyte sex ratio and implications in malaria parasite transmission. Malaria Journal, 2019, 18, 70.	2.3	14
12	Probabilistic data integration identifies reliable gametocyte-specific proteins and transcripts in malaria parasites. Scientific Reports, 2018, 8, 410.	3.3	39
13	Gametocytes of the Malaria Parasite Plasmodium falciparum Interact With and Stimulate Bone Marrow Mesenchymal Cells to Secrete Angiogenetic Factors. Frontiers in Cellular and Infection Microbiology, 2018, 8, 50.	3.9	27
14	A high susceptibility to redox imbalance of the transmissible stages of <scp>P</scp>lasmodium falciparum revealed with a luciferaseâ€based mature gametocyte assay. Molecular Microbiology, 2017, 104, 306-318.	2.5	28
15	A Molecular Assay to Quantify Male and Female Plasmodium falciparum Gametocytes: Results From 2 Randomized Controlled Trials Using Primaquine for Gametocyte Clearance. Journal of Infectious Diseases, 2017, 216, 457-467.	4.0	47
16	Ned-19 inhibition of parasite growth and multiplication suggests a role for NAADP mediated signalling in the asexual development of Plasmodium falciparum. Malaria Journal, 2017, 16, 366.	2.3	5
17	Detection of Plasmodium falciparum male and female gametocytes and determination of parasite sex ratio in human endemic populations by novel, cheap and robust RTqPCR assays. Malaria Journal, 2017, 16, 468.	2.3	19
18	Hexahydroquinolines are antimalarial candidates with potent blood-stage and transmission-blocking activity. Nature Microbiology, 2017, 2, 1403-1414.	13.3	47

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19	The emerging role of the human bone marrow as a privileged developmental niche for the transmission stages of the malaria parasite Plasmodium falciparum. Commentary. Annali Dell'Istituto Superiore Di Sanita, 2017, 53, 96-99.	0.4	3
20	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. PLoS Pathogens, 2016, 12, e1005763.	4.7	244
21	CRISPRâ€Cas9â€modified pfmdr1 protects Plasmodium falciparum asexual blood stages and gametocytes against a class of piperazineâ€containing compounds but potentiates artemisininâ€based combination therapy partner drugs. Molecular Microbiology, 2016, 101, 381-393.	2.5	56
22	Discovering New Transmission-Blocking Antimalarial Compounds: Challenges and Opportunities. Trends in Parasitology, 2016, 32, 669-681.	3.3	40
23	Comparative Proteomics and Functional Analysis Reveal a Role of Plasmodium falciparum Osmiophilic Bodies in Malaria Parasite Transmission. Molecular and Cellular Proteomics, 2016, 15, 3243-3255.	3.8	40
24	Plasmodium Merozoite TRAP Family Protein Is Essential for Vacuole Membrane Disruption and Gamete Egress from Erythrocytes. Cell Host and Microbe, 2016, 20, 618-630.	11.0	59
25	Genomic variation in two gametocyte non-producing Plasmodium falciparum clonal lines. Malaria Journal, 2016, 15, 229.	2.3	18
26	A chemical susceptibility profile of thePlasmodium falciparumtransmission stages by complementary cell-based gametocyte assays. Journal of Antimicrobial Chemotherapy, 2016, 71, 1148-1158.	3.0	37
27	Bone marrow reticulocytes: a Plasmodium vivax affair?. Blood, 2015, 125, 1203-1205.	1.4	14
28	A simple and predictive phenotypic High Content Imaging assay for Plasmodium falciparum mature gametocytes to identify malaria transmission blocking compounds. Scientific Reports, 2015, 5, 16414.	3.3	46
29	Specific expression and export of the Plasmodium falciparum Gametocyte EXported Protein-5 marks the gametocyte ring stage. Malaria Journal, 2015, 14, 334.	2.3	50
30	Enlightening the malaria parasite life cycle: bioluminescent Plasmodium in fundamental and applied research. Frontiers in Microbiology, 2015, 6, 391.	3.5	39
31	Erythrocyte remodeling by Plasmodium falciparum gametocytes in the human host interplay. Trends in Parasitology, 2015, 31, 270-278.	3.3	32
32	A fast, non-invasive, quantitative staining protocol provides insights in Plasmodium falciparum gamete egress and in the role of osmiophilic bodies. Malaria Journal, 2014, 13, 389.	2.3	17
33	Plasmodium falciparum transmission stages accumulate in the human bone marrow. Science Translational Medicine, 2014, 6, 244re5.	12.4	239
34	Feeling at home from arrival to departure: protein export and host cell remodelling duringPlasmodiumliver stage and gametocyte maturation. Cellular Microbiology, 2014, 16, 324-333.	2.1	24
35	Uncovering the hideout of malaria sexual parasites. Blood, 2014, 123, 954-955.	1.4	2
36	Multicolor Bioluminescence Boosts Malaria Research: Quantitative Dual-Color Assay and Single-Cell Imaging in Plasmodium falciparum Parasites. Analytical Chemistry, 2014, 86, 8814-8821.	6.5	54

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37	The sound of sexual commitment breaks the silencing of malaria parasites. Trends in Parasitology, 2014, 30, 509-510.	3.3	11
38	Early gametocytes of the malaria parasitePlasmodium falciparumspecifically remodel the adhesive properties of infected erythrocyte surface. Cellular Microbiology, 2013, 15, 647-659.	2.1	74
39	A Plasmodium falciparum screening assay for anti-gametocyte drugs based on parasite lactate dehydrogenase detection. Journal of Antimicrobial Chemotherapy, 2013, 68, 2048-2058.	3.0	102
40	A switch in infected erythrocyte deformability at the maturation and blood circulation of Plasmodium falciparum transmission stages. Blood, 2012, 119, e172-e180.	1.4	130
41	The Plasmodium falciparum Schizont Phosphoproteome Reveals Extensive Phosphatidylinositol and cAMP-Protein Kinase A Signaling. Journal of Proteome Research, 2012, 11, 5323-5337.	3.7	128
42	Specific tagging of the egress-related osmiophilic bodies in the gametocytes of Plasmodium falciparum. Malaria Journal, 2012, 11, 88.	2.3	6
43	Differential Adhesive Properties of Sequestered Asexual and Sexual Stages of Plasmodium falciparum on Human Endothelial Cells Are Tissue Independent. PLoS ONE, 2012, 7, e31567.	2.5	51
44	Protein Export Marks the Early Phase of Gametocytogenesis of the Human Malaria Parasite Plasmodium falciparum. Molecular and Cellular Proteomics, 2010, 9, 1437-1448.	3.8	228
45	Regulated oligomerisation and molecular interactions of the early gametocyte protein Pfg27 in Plasmodium falciparum sexual differentiation. International Journal for Parasitology, 2010, 40, 663-673.	3.1	18
46	Revisiting the Plasmodium falciparum RIFIN family: from comparative genomics to 3D-model prediction. BMC Genomics, 2009, 10, 445.	2.8	20
47	The Plasmodium falciparum protein Pfg27 is dispensable for gametocyte and gamete production, but contributes to cell integrity during gametocytogenesis. Molecular Microbiology, 2009, 73, 180-193.	2.5	35
48	Egress ofPlasmodium bergheigametes from their host erythrocyte is mediated by the MDV-1/PEG3 protein. Cellular Microbiology, 2009, 11, 1272-1288.	2.1	100
49	The role of osmiophilic bodies and Pfg377 expression in female gametocyte emergence and mosquito infectivity in the human malaria parasite Plasmodium falciparum. Molecular Microbiology, 2008, 67, 278-290.	2.5	80
50	A 140-bp AT-rich sequence mediates positive and negative transcriptional control of a Plasmodium falciparum developmentally regulated promoter. International Journal for Parasitology, 2008, 38, 299-312.	3.1	16
51	Plasmodium falciparum Regulatory Subunit of cAMP-Dependent PKA and Anion Channel Conductance. PLoS Pathogens, 2008, 4, e19.	4.7	74
52	Plasmodium falciparum gametocytes: still many secrets of a hidden life. Molecular Microbiology, 2007, 66, 291-302.	2.5	101
53	Plasmodium falciparum: mRNA co-expression and protein co-localisation of two gene products upregulated in early gametocytes. Experimental Parasitology, 2007, 116, 497-503.	1.2	46
54	Genome-wide identification of genes upregulated at the onset of gametocytogenesis in Plasmodium falciparum. Molecular and Biochemical Parasitology, 2005, 143, 100-110.	1.1	135

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55	Biochemical characterization of the two nucleosome assembly proteins from Plasmodium falciparum. Molecular and Biochemical Parasitology, 2005, 142, 237-247.	1.1	40
56	PfPK7, an atypical MEK-related protein kinase, reflects the absence of classical three-component MAPK pathways in the human malaria parasite Plasmodium falciparum. Molecular Microbiology, 2004, 55, 184-186.	2.5	88
57	Plasmodium falciparum glycogen synthase kinase-3: molecular model, expression, intracellular localisation and selective inhibitors. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2004, 1697, 181-196.	2.3	95
58	A gene-family encoding small exported proteins is conserved across Plasmodium genus. Molecular and Biochemical Parasitology, 2003, 126, 209-218.	1.1	33
59	Identification and Initial Characterization of Three Novel Cyclin-related Proteins of the Human Malaria Parasite Plasmodium falciparum. Journal of Biological Chemistry, 2003, 278, 39839-39850.	3.4	69
60	Pfnek-1, a NIMA-related kinase from the human malaria parasitePlasmodium falciparum. FEBS Journal, 2001, 268, 2600-2608.	0.2	103
61	Commitment to the production of male and female gametocytes in the human malaria parasite Plasmodium falciparum. Parasitology, 2000, 121, 465-471.	1.5	103
62	Repetitive sequences upstream of the pfg27/25 gene determine polymorphism in laboratory and natural lines of Plasmodium falciparum. Molecular and Biochemical Parasitology, 2000, 110, 247-257.	1.1	7
63	Genotyping of Plasmodium falciparum gametocytes by reverse transcriptase polymerase chain reaction. Molecular and Biochemical Parasitology, 2000, 111, 153-161.	1.1	47
64	An Atypical Mitogen-activated Protein Kinase (MAPK) Homologue Expressed in Gametocytes of the Human Malaria Parasite Plasmodium falciparum. Journal of Biological Chemistry, 1999, 274, 29912-29920.	3.4	97
65	The production of the osmiophilic body protein Pfg377 is associated with stage of maturation and sex in Plasmodium falciparum gametocytes. Molecular and Biochemical Parasitology, 1999, 100, 247-252.	1.1	49
66	Chromosome mapping in Cryptosporidium parvum and establishment of a long-range restriction map for chromosome VI. FEMS Microbiology Letters, 1999, 175, 231-238.	1.8	0
67	Structure and polymorphism of the upstream region of the pfg2725 gene, transcriptionally regulated in gametocytogenesis of Plasmodium falciparum. Molecular and Biochemical Parasitology, 1996, 79, 207-217.	1.1	30
68	COS cell expression cloning of Pfg377, a Plasmodium falciparum gametocyte antigen associated with osmiophilic bodies. Molecular and Biochemical Parasitology, 1995, 74, 143-156.	1.1	81
69	Plasmodium falciparum: Parasites Defective in Early Stages of Gametocytogenesis. Experimental Parasitology, 1995, 81, 227-235.	1.2	67
70	Cloning and characterisation of a Plasmodium falciparum homologue of the Ran/TC4 signal transducing GTPase involved in cell cycle control. Molecular and Biochemical Parasitology, 1994, 65, 331-338.	1.1	15
71	The Culture and Preparation of Gametocytes of Plasmodium falciparum for Immunochemical, Molecular, and Mosquito Infectivity Studies. , 1993, 21, 67-88.		83
72	The gene encoding DNA polymerase Î± fromPlasmodium falciparum. Nucleic Acids Research, 1993, 21, 3643-3646.	14.5	35

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73	Characterization of a Plasmodium falciparum mutant that has deleted the majority of the gametocyte-specific Pf11-1 locus. Memorias Do Instituto Oswaldo Cruz, 1992, 87, 91-94.	1.6	7
74	Plasmodium sexual stage antigens. Parasitology Today, 1991, 7, 199-203.	3.0	21
75	A stage specific gene expressed at the onset of gametocytogenesis in Plasmodium falciparum. Molecular and Biochemical Parasitology, 1991, 46, 81-88.	1.1	61
76	DNA polymerase Î´: gene sequences fromPlasmodium falciparumindicate that this enzyme is more highly conserved than DNA polymerase Î±. Nucleic Acids Research, 1991, 19, 6731-6736.	14.5	62
77	Commitment of the malaria parasite Plasmodium falciparum to sexual and asexual development. Parasitology, 1990, 100, 191-200.	1.5	203
78	Expression of Î± and Î² tubulin genes during the asexual and sexual blood stages of Plasmodium falciparum. Molecular and Biochemical Parasitology, 1990, 43, 271-278.	1.1	49
79	Sequence coding for a sexual stage specific protein ofPlasmodium falciparum. Nucleic Acids Research, 1990, 18, 3637-3637.	14.5	19
80	Sexual Differentiation in Malaria Parasites. Annual Review of Microbiology, 1990, 44, 429-449.	7.3	99
81	Plasmodium falciparum: An abundant stage-specific protein expressed during early gametocyte development. Experimental Parasitology, 1989, 69, 140-149.	1.2	69
82	Regulation of the plasmid state of the genetic element P4. Molecular Genetics and Genomics, 1986, 203, 445-450.	2.4	27
83	Plasmid mode of propagation of the genetic element P4. Journal of Molecular Biology, 1984, 178, 191-207.	4.2	29
84	Gametocytes and Gametes. , 0, , 191-219.		19